

1741  
#4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Marco Falcioni, et al.                      Art Unit : 1741  
Serial No. : 10/061,960                                      Examiner : Unknown  
Filed : February 1, 2002  
Title : GRAPHICAL DESIGN OF CHEMICAL DISCOVERY PROCESSES

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT


Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed before the receipt of a first Office action on the merits.  
Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: \_\_\_\_\_

6/27/02

  
\_\_\_\_\_  
Timothy A. Porter  
Reg. No. 41,258

Fish & Richardson P.C.  
500 Arguello Street, Suite 500  
Redwood City, California 94063  
Telephone: (650) 839-5070  
Facsimile: (650) 839-5071

50095123.doc

RECEIVED  
JUL 09 2002  
TG 1700

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

June 27, 2002

Date of Deposit

  
\_\_\_\_\_  
Patricia Wiggins

6/27/02

|   |  |                                       |                               |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10555-034001 | Application No.<br>10/061,960 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Marco Falcioni, et al.   |                               |
|   |  | Filing Date<br>February 1, 2002       | Group Art Unit<br>1741        |
| (37 CFR §1.98(b))   |  |                                       |                               |

## U.S. Patent Documents

| Examiner Initial | Desig. ID | Patent Number | Issue Date    | Patentee       | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|---------------|----------------|-------|----------|----------------------------|
|                  | AA        | 5,614,608     | 3/25/97       | Krchnak et al. | 530   | 334      |                            |
|                  | AB        | 5,759,779     | 6/2/98        | Dehlinger      | 435   | 436      |                            |
|                  | AC        | 5,763,263     | 6/9/98        | Dehlinger      | 435   | 287      |                            |
|                  | AD        | 5,856,101     | 1/5/99        | Hubbell et al. | 435   | 6        |                            |
|                  | AE        | 5,974,164     | 10/26/99      | Chee           | 382   | 129      |                            |
|                  | AF        | 6,044,212     | Mar. 28, 2000 | Flavin et al.  |       |          |                            |
|                  | AG        | 6,175,816     | Jan. 16, 2001 | Flavin et al.  |       |          |                            |

RECEIVED

JUL 09 2002

TC 1700

## Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class        | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|--------------|----------|-------------|----|
|                  |           |                 |                  |                          |              |          | Yes         | No |
|                  | AH        | EP 0 796 654 A2 | 9/24/1997        | EPO                      |              |          |             |    |
|                  | AI        | WO 98/15825     | 4/16/98          | PCT                      |              |          |             |    |
|                  | AJ        | WO 99/59722     | 11/25/99         | PCT                      | B01L<br>3/00 |          |             |    |

## Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | AK        | Advanced Chem. Tech. "Model 496 MOS Multiple Organic Synthesizer", product information, 6 pgs.   |
|                  | AL        | Advanced Chem. Tech. "Model 348 MPS Multiple Peptide Synthesizer", product information, 4 pgs, 1997.   |
|                  | AM        | Advanced Chem. Tech. "The ACT Model 90 Tabletop Peptide synthesizer", product information, 1 pg.   |
|                  | AN        | Afferent Systems, Inc. "Afferent Products" <a href="http://www.afferent.com/products/html">www.afferent.com/products/html</a> , product information, 2 pgs.  |
|                  | AO        | Afferent Systems, Inc. "Afferent Defines Libraries In Terms of Precursors and Reactions", product information, 3 pgs. <a href="http://www.afferent.com/libraries.html">www.afferent.com/libraries.html</a> |
|                  | AP        | Afferent Systems, Inc. "Afferent Uses Virtual Chemistry to Generate Combinatorial Products", 6 pgs., <a href="http://www.afferent.com/generation.html">www.afferent.com/generation.html</a>                |
|                  | AQ        | Afferent Systems, Inc. "The Generic Structure Approach", 3 pgs. <a href="http://www.afferent.com/genric-structure.html">www.afferent.com/genric-structure.html</a>   |
|                  | AR        | Afferent Systems, Inc. "Talk Chemistry, Not Robot Language, To Your Synthesis System", 8 pgs. <a href="http://www.afferent.com/control.html">www.afferent.com/control.html</a>                             |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|   |  |                                       |                               |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10555-034001 | Application No.<br>10/061,960 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Marco Falcioni, et al.   |                               |
|   |  | Filing Date<br>February 1, 2002       | Group Art Unit<br>1741        |

(37 CFR §1.98(b))

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document  |
|------------------|-----------|---|
|                  | AS        | Afferent Systems, Inc., "Afferent Analytical <sup>TM</sup> ", pages 1 of 1, <a href="http://www.afferent.com/analytical.html">http://www.afferent.com/analytical.html</a> , Copyright© 1996-1999, Last updated 1/28/1999  |
|                  | AT        | Afferent Systems, Inc., "What's new?, IRORI and Afferent enter into Combinatorial Chemistry Collaboration Agreement," pages 1 of 2, <a href="http://www.afferent.com/news.html">http://www.afferent.com/news.html</a> , Copyright© 1996-1999, Last updated 7/3/1999 |
|                  | AU        | Asymtek "M-MCM"   |
|                  | AV        | Asymtek "M-ENCAP", product information, 1 pg.   |
|                  | AW        | Asymtek "M-FCOB", product information, 2 pgs.   |
|                  | AX        | Automated Organic Synthesis - No Compromises, 2 pgs.  |
|                  | AY        | Biomek 2000 Laboratory Automation Workstation, product information, 2 pgs.  |
|                  | AZ        | Bohdan Automation "Solid Phase Extraction Workstation by vacuum"  |
|                  | AAA       | Carl Creative Systems "Plate Trak Automated Liquid Handling System", product information, 1 pg.   |
|                  | ABB       | Cargill et al., "Automated Combinatorial Chemistry on Solid Phase", L.R.A., 1996, vol. 8, 139-148.  |
|                  | ACC       | Cawse, "Experimental Strategies for Combinatorial and High-Throughput Materials Development", Accounts of Chemical Research, 2001, vol. 34, no. 3, pp. 213-221  |
|                  | ADD       | Chemical Computing Group Inc. "MOE: The Molecular Operating Environment", product information, 4 pgs., <a href="http://www.chemcomp.com/fdept/prodinfo.htm">www.chemcomp.com/fdept/prodinfo.htm</a>   |
|                  | AEE       | Corkan et al., "Application of an Automated Chemistry Workstation to Problems in Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1992, vol. 17, pp. 95-105.  |
|                  | AFF       | Corkan et al., "Design Concepts for Synthetic Chemistry Workstations", Advances in Laboratory Automation Robotics, 1990, vol. 6, pp. 447-497.   |
|                  | AGG       | Corkan et al., "Experiment Manager Software for an Automated Chemistry Workstation, Including a Scheduler for Parallel Experimentation", Chemometrics and Intelligent Laboratory Systems; Lab. Info. Mgmt., 1992, vol. 17, pp. 47-47.                               |
|                  | AHH       | Deem, "A Statistical Mechanical Approach to Combinatorial Chemistry", Advances in Chemical Engineering 28, Academic Press, 2001, pp. 81-121   |
|                  | AII       | Digitale Mehrkanal-Pipette CALIBRA 852 and DIGISCAN, product information, 1 pg.   |
|                  | AJJ       | EG&G Wallac MicroBeta "TriLux Scintillation and Luminescence Counter"   |
|                  | AKK       | Falcioni, et al., "Library Design in Combinatorial Chemistry by Monte Carlo Methods", Phys. Rev. E 61, 2000, pp. 5948-5952  |
|                  | ALL       | Foder, et al., "Light-directed, spatially addressable parallel chemical synthesis", Science, (1991) Vol. 251, pp. 767-773   |
|                  | AMM       | Gilson "Better Solutions from Gilson mean...", product information, 1 pg.   |
|                  | ANN       | Houghten, "Parallel array and mixture-based synthetic combinatorial chemistry: tools for the next millennium", Annu. Rev. Pharmacol. Toxicol. (2000) Vol. 40, pp. 273-82  |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|   |  |                                       |                               |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10555-034001 | Application No.<br>10/061,960 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Marco Falcioni, et al.   |                               |
|   |  | Filing Date<br>February 1, 2002       | Group Art Unit<br>1741        |

(37 CFR §1.98(b))

### Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | AOO       | Hydra "Pooling Samples, Integrating the Hydra, Dispensing Precision",  |
|                  | APP       | HyPrep "ThePrep Plus System", product information, 1 pg.   |
|                  | AQQ       | Koinuma, et al., "Parallel fabrication of artificially designed superlattices by combinatorial laser MBE", Appl. Phys. A 69 Supp., (1999) S29-S31  |
|                  | ARR       | Labute, Chemical Computing Group Inc. "MOE: Deployment Strategies", product information, 6 pgs., <a href="http://www.chemcomp.com/feature/deploy.htm">www.chemcomp.com/feature/deploy.htm</a>  |
|                  | ASS       | Lindsey, "Automated Workstations for Chemical Synthesis in Japan: A New Paradigm for Pharmaceutical Research", Am. Lab., 1993, pp. 17, 18, 20.   |
|                  | ATT       | Lindsey, "A Retrospective on the Automation of Laboratory Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Inf. Mgmt., 1992, vol. 17, pp. 15-45.  |
|                  | AUU       | Lindsey, et al., "Toward High-Performance Parallel Experimentation Machines: Use of a Scheduler as a Quantitative Computer-Aided Design Tool for Evaluating Workstation Performance", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1993, vol. 21, pp. 139-150. |
|                  | AVV       | Packard "Packard... The complete solution", product information, 1 pg.   |
|                  | AWW       | Packard "MultiPROBE Robotic Liquid Handling Systems" product information, 2 pgs.   |
|                  | AXX       | Titertek "Quadflex", product information, 2 pgs.   |
|                  | AYY       | Thayer, A. M., "Bioinformatics for the Masses", Business, 2000, vol. 78, no. 6, CENEAR 78, pp. 19-32   |
|                  | AZZ       | The Technology Partnership, "Myriad Personal Synthesis; A New Approach to Synthesis", product information, 7 pgs.  |
|                  | AAAA      | Yan, et al. "Determination of the absolute amount of resin-bound hydroxyl or carboxyl groups for the optimization of solid-phase combinatorial and parallel organic synthesis", Anal. Chem. (1999) vol. 71, pp. 4564-4571  |
|                  | ABBB      | Zinsser Analytic "LISSY Pipetting with Windows", product information, 1 pg.  |

RECEIVED

JUL 09 2002

TC 1700

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |